

communicate with a computer system. Furthermore, each such computer program can be stored on a storage medium, such as read-only-memory (ROM) readable by a general or special purpose programmable computer, for configuring and operating 5 the computer when the storage medium is read by the computer to perform the functions described above.

Other implementations are within the scope of the claims.

What is claimed is:

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1. A method of performing a continuity check operation comprising:

sending a pattern of bits over a packet network connection through a first interface on a packet network to

5 a second interface on the packet network;

monitoring the first interface for return of the pattern of bits over the packet network connection; and

deciding whether the continuity check is successful based on whether the pattern of bits is detected at the 10 first interface during the monitoring.

2. The method of claim 1 including providing a loop between incoming and outgoing packet streams associated with the packet network connection.

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3. The method of claim 1 including repeatedly sending the pattern of bits over the packet network connection during the monitoring.

20 4. The method of claim 1 wherein the continuity check is performed during a set-up process for a narrowband call over the packet network.

25 5. The method of claim 4 wherein the call set-up process includes sending Signaling System 7 messages.

6. The method of claim 1 wherein the pattern of bits sent over the packet network connection includes a first byte all of whose bits are a first value and a second byte all of whose bits are a second different value.

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7. The method of claim 1 wherein the pattern of bits includes multiple bytes each having multiple bits, wherein a single bit in each byte has a value that differs from all other bits in the byte, and wherein the bit having the different value is shifted by one position between adjacent bytes.

8. The method of claim 1 wherein the pattern of bits includes first and second bytes each of whose bits alternate in value, and wherein the value of the second byte is the complement of the value of the first byte.

9. The method of claim 1 wherein the continuity check is considered a failure if the pattern of bits is not detected at the first interface during monitoring within a specified period.

10. An apparatus configured to adapt circuit-switched and packet-based bearers and configured to execute continuity check operations, the apparatus comprising a bit pattern generator and a bit pattern detector, wherein the pattern generator is arranged to generate a pattern of bits

to be sent over a packet network connection, and the bit pattern detector is arranged to monitor return of the pattern of bits over the packet network connection, wherein the apparatus is configured to decide whether a continuity 5 check is successful based on whether the generated pattern of bits is detected by the bit pattern detector.

11. The apparatus of claim 10 wherein the bit pattern generator is arranged to send the pattern of bits repeatedly 10 over the packet network connection.

12. The apparatus of claim 10 configured to perform the continuity check during a set-up process for a narrowband call over the packet network connection.

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13. A communications system comprising:
a packet network; and
a first gateway coupled to a first interface on the packet network and configured to execute continuity check operations, wherein the gateway includes a bit pattern 20 generator and a bit pattern detector, wherein the pattern generator is arranged to generate a pattern of bits to be sent over a connection in the packet network, and the bit pattern detector is arranged to monitor return of the pattern of bits over the packet network connection, wherein the gateway is further configured to decide whether a 25 continuity check is successful based on whether the

generated pattern of bits is detected by the bit pattern detector.

14. The system of claim 13 including a second gateway
5 coupled to a second interface on the packet network and
configured to provide a loop between incoming and outgoing
packet streams associated with the packet network
connection.

10 15. The system of claim 13 wherein the bit pattern
generator is arranged to send the pattern of bits repeatedly
over the packet network connection.

15 16. The system of claim 13 wherein the gateway is
configured to perform the continuity check during a set-up
process for a narrowband call over the packet network
connection.

20 17. An article comprising a computer-readable storage
medium including computer-executable instructions for
causing a computer system to:

send a pattern of bits over a packet network connection
through a first interface on a packet network to a second
interface on the packet network;

25 monitor the first interface for return of the pattern
of bits over the packet network connection; and

decide whether a continuity check is successful based on whether the pattern of bits is detected at the first interface during the monitoring.

5 18. The article of claim 17 including instructions for causing the computer system to:

provide a loop between incoming and outgoing packet streams associated with the packet network connection.

10 19. The article of claim 17 including instructions for causing the computer system to:

repeatedly send the pattern of bits over the packet network connection during the monitoring.

15 20. The article of claim 17 including instructions for causing the computer system to perform the continuity check during a set-up process for a narrowband call over a packet network